

## **SPECIAL SPECIFICATION**

### **SECTION 02445S**

#### **FULL-HEIGHT SECURITY GATES**

##### **PART 1 - GENERAL**

###### **1.01 PRODUCT DESCRIPTION:**

- A. A self-closing full height, electric lock controlled, security gate designed to provide controlled access into and out of high security area. Used often in conjunction with full height turnstiles. The gate arm swings in one direction.

##### **PART 2 - MATERIALS**

###### **2.01 PRODUCT: "MSGX" by Alvarado Mfg. Co., Inc.**

- A. All tubing and sheet metal materials meet ASTM Standard A513.
- B. The Gate Arm is a fully welded assembly constructed of cold rolled carbon steel tubing. The gate arm assembly consists of a miter cut and welded border constructed of 2" square x 11 gauge cold rolled carbon steel tubing with four welded vertically aligned interior pieces constructed of 1 3/4" x 16 gauge cold rolled carbon steel tubing. The vertical tubes are spaced evenly across the width of the gate and are reinforced by two 1" x 3/16" thick cold rolled carbon steel flat bar welded horizontally across the gate arm. The gate arm is equipped with an aluminum pull handle and a 8" x 1/8" thick cold rolled carbon steel kickplate. All welds are ground smooth and polished. The top of the gate arm is 84" from the floor. The bottom of the gate arm is 2 3/8" from the floor. The gate arm is 36" wide and in a fully open (90 degree) position, the gate provides a clear floor opening of 35" (base flange to base flange) and a clear above floor opening of 36".
- C. The Gate Frame is a fully welded assembly constructed of miter cut and welded 2" square x 11 gauge cold rolled carbon steel tubing with five welded vertically aligned interior pieces constructed of 1 3/4" x 16 gauge cold rolled carbon steel tubing and two welded 12" x 3" x 1/4" thick base plates with gussets. All welds are ground smooth and polished. The gate frame is 91" high and 41" wide.
- D. Size: As shown on drawings
- E. Electric Lock Control: The electric lock and card reader/ keypad configurations of the MSGX are specified in section "Infographic Systems Entry Control and Alarm Monitoring System" of Division 25.

## 2.02 FINISHES

- A. Powder Coated; Available in a wide variety of colors. Sub-assemblies are sand blasted to prepare for the powder coat finish. The powder is electrostatically applied, then baked to assure proper curing and adhesion.

1. Thickness: 5 mil (dry)
2. Color as selected from manufacturers standards

## PART 3 - EXECUTION

### 3.01 SHIPPING

- A. Ship fully assembled. Include mounting hardware (anchors, bolts, washers, etc.) to mount the unit to a standard concrete pad.

### 3.02 INSTALLATION

- A. All units must be installed on a firm foundation (in a manner that allows the required power and activation signal cabling to be pulled to the top of the gate frame if the electric lock control option is purchased). The recommended platform is 48" by 18" by 4" deep, level concrete. No embedded fasteners are needed for installation. Installation should be performed by a skilled installer following the manufacturer's directions and instructions (supplied with the gate).

### 3.03 WARRANTY

- A. Warrant the gate from defects in material or workmanship, for the period of ONE YEAR from date of shipment. Complete details of the warranty are available from Alvarado by request.

### 3.04 TECHNICAL SERVICES

- A. Technical information is available from Alvarado Mfg. Co., Inc., and its representatives, distributors and dealers.

### 3.05 ADJUSTING AND CLEANING

- A. For galvanized surfaces clean welds, bolted connections and abraded areas and apply galvanizing repair paint to comply with ASTM A780.

END OF SECTION